

Sequence Listing

<110> Universitaet Leipzig

<120> Method and Means for the Determination of Defined States or Modifications in the Mucus of the Uterus or in the Epithelium of Other Organs

<130> 401P07PCT-US

<140> 10/559,406

<141> 2006-05-30

<150> PCT/DE04/01210

<151> 2004-06-04

<150> DE10325639.3

<151> 2003-06-06

<150> DE10325638.5

<151> 2003-06-06

<160> 15

<210> 1

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-9 (e-beta-hCG)

<400> 1

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala
1				5					10					15

<210> 2

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope beta-9 (t?hCG)

<400> 2

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Asp	Ser	Ser	Ser	Ser	Lys	Ala
1				5					10					15

<210> 3

<211> 15

<212> PRT

<213> artificial sequence

<220>

<223> Epitope e-beta-1 (e-beta-hCG)

<400> 3

Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile	Asn	Ala	Thr
1				5					10					15

<210> 4
 <211> 15
 <212> PPT
 <213> artificial sequence
 <220>
 <223> Epitope beta-1 (t-beta-hCG)
 <400> 4

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile Asn Ala Thr
 1 5 10 15

<210> 5
 <211> 861
 <212> DNA
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-7 cDNA-Sequenz
 <400> 5

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actgagtctc agaggtcact tcaccgtggt ctccgcctca tccttggcgc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaaggggta gtgtccagct cactccagca tcctacaacc tcctgggtggc 300
cttgacgccc ccacaaaccc gaggtataaa gccaggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gatgcttcgg ccacgggtgc gccccatcaa tgccacccctg gctgtggaga 480
aggagggctg ccccggtgtg atcacgttca acaccaccat ctgtgcgggc tactgcccc 540
ccatgaccgg cgtgctgcag ggggtcctgc cggccctgcc tcagggtggtg tgcaactacc 600

gcatgtgtgc cttegagtc atccgggtcc ctggtgtccc gcgcggcgtg aaccccggtg 660
tctcctaagc cgtggctctc agctgtcaat gtgcactctg ccgcgcgacg accactgact 720
gcggggggtc caaggaccac ccttgacct gtgatgaccc ccgcttccag gcctcctctt 780
cctcaaaggc cctccccccc agccttccaa gtccatcccg actcccgggg cctcgggaca 840
ccccgatcct ccacacaataa a 861
  
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<210> 6
 <211> 861
 <212> DNA
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-6 cDNA-Sequenz
 <400> 6

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actgagtctc agaggtcact tcaccgtggt ctccgcctca tccttggcgc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaaggggta gtgtcgagct cactccagca tcctacaacc tcctgggtggc 300
cttgccgccc ccacaaaccc gaggtatgaa gccaggtaca ccaggcaggg gacgcaccaa 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccaagga gccacttcgg ccacgggtgc gccccatcaa tgccacccctg gctgtggaga 480
aggagggctg ccccggtgtg atcacgttca acaccaccat ctgtgcgggc tactgcccc 540
ccatgaccgg cgtgctgcag ggggtcctgc cggccctgcc tcagggtggtg tgcaactacc 600

gcatgtgtgc cttegagtc atccgggtcc ctggtgtccc gcgcggcgtg aaccccggtg 660
tctcctaagc cgtggctctc agctgtcaat gtgcactctg ccgcgcgacg accactgact 720
gcggggggtc caaggaccac ccttgacct gtgatgaccc ccgcttccag gcctcctctt 780
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ccccgatcct ccacacaataa a 861
  
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<210> 7
 <211> 861
 <212> DNA
 <213> homo sapiens
 <220>
 <223> e-beta-hCG ("endo" beta-6e) cDNA-Sequenz
 <400> 7

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actgagtctc agagggtcact tcaccgtggt ctccgcctca tccttggygc tagaccactg 180
aggggagagg actgggggtgc tccgctgagc cactcctgtg cctccctggc cttgtctact 240
tctcgccccc cgaagggtta gtgtcsagct cactccagca tctacaacc tctgtgtggc 300
cttgmcgccc ccacaamccc gaggtatraa gccaggtaca ccaggcaggg gaogcaccas 360
ggatggagat gttccagggg ctgctgctgt tgctgctgct gagcatgggc gggacatggg 420
catccargga gmyrottcgg ccacgggtgc gccccatcaa tgccacctg gctgtggaga 480
aggagggctg ccccggtgtg atcaccttca acaccaccat ctgtgcgggc tactgcccc 540
ccatgacccg cgtgctgcag ggggtcctgc cggccctgcc tcaggtggtg tgcaactacc 600

gcatgtgtgc cttcgagtc atccggctcc ctggctgccc gcggggcgtg aaccccggtg 660
tctcctacgc cgtggtcttc agctgtcaat gtgcactctg ccggccgagc accactgact 720
gccccgggtc caaggaccac cccttgacct gtgatgacc ccgcttcag gcctcctctt 780
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<210> 8
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> t-beta-hCG beta-5,beta-8,beta-3(prehormone)
 <400> 8

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5

Gly Thr Trp Ala Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro Ile
 -1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
 80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser Ser Ser Lys Ala Pro

110		115		120											
Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
125				130						135					140

Pro Ile Leu Pro Gln
145

<210> 9
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> beta-hCG beta-7 (prehormone)
 <400> 9

Met	Glu	Met	Phe	Gln	Gly	Leu	Leu	Leu	Leu	Leu	Leu	Leu	Ser	Met	Gly
-20					-15						-10				-5

Gly	Thr	Trp	Ala	Ser	Arg	Glu	Met	Leu	Arg	Pro	Arg	Cys	Arg	Pro	Ile
			-1	1				5					10		

Asn	Ala	Thr	Leu	Ala	Val	Glu	Lys	Glu	Gly	Cys	Pro	Val	Cys	Ile	Thr
	15						20					25			

Val	Asn	Thr	Thr	Ile	Cys	Ala	Gly	Tyr	Cys	Pro	Thr	Met	Met	Arg	Val
30						35					40				

Gly	Val	Leu	Gln	Leu	Pro	Ala	Leu	Pro	Gln	Val	Val	Cys	Asn	Tyr	Arg
45					50					55					60

Asp	Val	Arg	Phe	Glu	Ser	Ile	Arg	Leu	Pro	Gly	Cys	Pro	Arg	Gly	Val
				65					70					75	

Asn	Pro	Val	Val	Ser	Tyr	Ala	Val	Ala	Leu	Ser	Cys	Gln	Cys	Ala	Leu
		90						85					90		

Cys	Arg	Arg	Ser	Thr	Thr	Asp	Cys	Gly	Gly	Pro	Lys	Asp	His	Pro	Leu
	95						100					105			

Thr	Cys	Asp	Asp	Pro	Arg	Phe	Gln	Ala	Ser	Ser	Ser	Ser	Lys	Ala	Pro
	110					115						120			

Pro	Pro	Ser	Leu	Pro	Ser	Pro	Ser	Arg	Leu	Pro	Gly	Pro	Ser	Asp	Thr
125					130					135					140

Pro Ile Leu Pro Gln
145

<210> 10
 <211> 165
 <212> PRT
 <213> homo sapiens
 <220>
 <223> e-beta-hCG beta-6e (with Arg in Pos 2) (prehormone)
 <400> 10

Met Glu Met Phe Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5

Gly Thr Trp Ala Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro Ile
 -1 1 5 10

Asn Ala Thr Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40

Gly Val Leu Gln Leu Pro Ala Leu Pro Gln Val Val Cys Asn Tyr Arg
 45 50 55 60

Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75

Asn Pro Val Val Ser Tyr Ala Val Ala Leu Ser Cys Gln Cys Ala Leu
 80 85 90

Cys Arg Arg Ser Thr Thr Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105

Thr Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser Ser Ser Lys Ala Pro
 110 115 120

Pro Pro Ser Leu Pro Ser Pro Ser Arg Leu Pro Gly Pro Ser Asp Thr
 125 130 135 140

Pro Ile Leu Pro Gln
 145

<210> 11
 <211> 141
 <212> FRT
 <213> homo sapiens
 >220
 <223> beta-LH beta-4 (prehormone)
 <400> 11

Met Glu Met Leu Gln Gly Leu Leu Leu Leu Leu Leu Leu Ser Met Gly
 -20 -15 -10 -5

Gly Ala Trp Ala Ser Arg Glu Pro Leu Arg Pro Trp Cys His Pro Ile
 -1 +1 5 10

Asn Ala Ile Leu Ala Val Glu Lys Glu Gly Cys Pro Val Cys Ile Thr
 15 20 25

Val Asn Thr Thr Ile Cys Ala Gly Tyr Cys Pro Thr Met Met Arg Val
 30 35 40

Leu Gln Ala Val Leu Pro Pro Leu Pro Gln Val Val Cys Thr Tyr Arg
 45 50 55 60
 Asp Val Arg Phe Glu Ser Ile Arg Leu Pro Gly Cys Pro Arg Gly Val
 65 70 75
 Asp Pro Val Val Ser Phe Pro Val Ala Leu Ser Cys Arg Cys Ala Pro
 80 85 90
 Cys Arg Arg Ser Thr Ser Asp Cys Gly Gly Pro Lys Asp His Pro Leu
 95 100 105
 Thr Cys Asp His Pro Glu Leu Ser Gly Leu Leu Phe Leu
 110 115 120

<210> 12
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide P1 (e-beta-hCG)
 <400> 12

Cys Asp Asp Pro Arg Phe Gln Ala Ser Ser
 1 5 10

<210> 13
 <211> 10
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide K1 (t-beta-hCG)
 <400> 13

Cys Asp Asp Pro Arg Phe Gln Asp Ser Ser
 1 5 10

<210> 14
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide P2 (e-beta-hCG)
 <400> 14

Ser Arg Glu Met Leu Arg Pro Arg Cys Arg Pro
 1 5 10

<210> 15
 <211> 11
 <212> PRT
 <213> artificial sequence
 <220>
 <223> Peptide K2 (t-beta-hCG)
 <400> 15

Ser Lys Glu Pro Leu Arg Pro Arg Cys Arg Pro
 1 5 10